

BRAND NAME
Eucrisa TM
GENERIC NAME
Crisaborole
MANUFACTURER
Anacor Pharmaceuticals, Inc.
Anacor Filannaceuticais, inc.
DATE OF APPROVAL
12/14/2016
PRODUCT LAUNCH DATE
12/20/2016
12/20/2010
REVIEW TYPE
Review type 1 (RT1): New Drug Review
Full review of new chemical or biologic agents
Review type 2 (RT2): New Indication Review
Abbreviated review of new dosage forms of existing agents that are approved for a new
indication or use
indication of use
Review type 3 (RT3): Expedited CMS Protected Class Drug Review
Expedited abbreviated review of Centers for Medicare & Medicaid Services protected class
drugs (anticonvulsants, antidepressants, antineoplastic, antipsychotics, antiretrovirals, and
immunosuppressants)

FDA APPROVED INDICATION $\!^1$

Eucrisa (crisaborole) is a phosphodiesterase 4 inhibitor indicated for topical treatment of mild to moderate atopic dermatitis in patients 2 years of age and older.

OFF-LABEL USES

None reported

CLINICAL EFFICACY

² Two identical multicenter, randomized, double-blind, vehicle-controlled phase III trials (AD-301 and AD-302) assessed the safety and efficacy crisaborole ointment in the treatment of mild



to moderate atopic dermatitis (AD). Patients were randomized in a 2:1 ratio to twice daily treatment with topical crisaborole 2% ointment or vehicle for 28 days. The trials included 1522 patients aged 2-79 years with mild to moderate AD as determined by the Investigator's Static Global Assessment (ISGA) score of 2 (mild – faint pink erythema with mild induration/papulation and no oozing/crusting) or 3 (moderate – pink-red erythema with moderate induration/papulation with or without oozing/crusting), and at least 5% body surface area (BSA) involvement.

Key exclusion criteria were use of topical corticosteroids or a topical calcineurin inhibitor within 14 days of study entry, significant active infection and any previous use of biologic therapy.

The primary efficacy endpoint for both studies was an ISGA score of 0 (clear) or 1 (almost clear) at day 29 with a 2 or more point improvement from baseline.

Secondary efficacy endpoints included the proportion of patients with an ISGA score of 0 or 1 (clear or almost clear) at day 29 with at least a 1 point improvement from baseline and time needed to achieve an ISGA score of 0 or 1. Additional pre-specified endpoints were self-(parent/caregiver) reported severity of pruritus and investigator-assessed severity of signs and symptoms of AD (erythema, exudation, excoriation, induration/papulation, lichenification). Severity of pruritus and AD symptoms were reported on a 0-3 scale (0=none, 1=mild, 2=moderate, 3=severe).

Significantly more patients in the crisaborole group met the primary endpoint of and ISGA score of 0 (clear) or 1 (almost clear) at day 29 with at least a 2 point improvement from baseline. See table below.

Study	AD-301		AD-302	
Treatment	Crisaborole 2%	Vehicle	Crisaborole 2%	Vehicle
	N = 503	N = 256	N = 513	N = 250
Primary	32.8%	25.4%	31.4%	18.0%
endpoint				
	Difference 7.4%		Difference 13.4%	
	P = 0.038		P < 0.001	

No patients withdrew from the studies due to lack of efficacy.

CONTRAINDICATIONS

Eucrisa (crisaborole) is contraindicated in patients with known hypersensitivity to crisaborole or any component of the formulation.

BLACK BOX WARNINGS

Not applicable



DRUG INTERACTIONS

There are no known drug interactions.

ADVERSE REACTIONS

The most common adverse reaction occurring in \geq 1% of subjects in clinical trials was application site pain, including burning or stinging. Less common adverse reactions (<1%) included contact urticaria. If severe pruritus, swelling and erythema occur, hypersensitivity reaction should be suspected, crisaborole should be immediately discontinued and appropriate therapy initiated.

DOSAGE AND ADMINISTRATION

Apply a thin layer of Eucrisa twice daily to affected areas. Eucrisa is for topical use only. It is not for ophthalmic, oral or intravaginal use.

PRODUCT AVAILABILITY

Ointment 2% (20 mg crisaborole per gram)

THERAPEUTIC ALTERNATIVES

DRUG NAME	USAGE REGIMEN	COMMENTS			
	(route of admin/				
	frequency of use)				
Low Potency Topical Corticosteroids					
Aclometasone dipropionate 0.05%					
(Aclovate®) cream, ointment					
Desonide 0.05% (Desowen®) cream,	Apply topically to the	Should not be used for			
ointment, lotion	affected area(s) twice daily	longer than 2			
Fluocinolone acetonide 0.01%		consecutive weeks			
(Synalar®) solution					
Hydrocortisone 2.5% (Hytone®) cream,					
ointment					
Medium Potency Topical Corticosteroids					
Desoximetasone 0.05% (Topicort®)					
cream, ointment, gel					
Fluocinolone acetonide 0.025%	Apply topically to the	Should not be used for			
(Synalar) cream, ointment	affected area(s) twice daily	longer than 2			
Mometasone furoate 0.1% (Elocon®)		consecutive weeks			
cream, ointment, lotion					
Triamcinolone acetonide 0.025%					
(Aristocort®) cream, ointment					
Topical Calcineurin Inhibitors					



Pimecrolimus (Elidel®) 1% cream	Apply a thin layer to affected area twice daily.	Limit use to affected areas. Discontinue when symptoms have cleared.
Tacrolimus (Protopic®)	Apply a thin layer to	Limit use to affected
0.03% or 0.1% ointment	affected area twice daily.	areas. Discontinue when
	Age 2-15 years, use 0.03%	symptoms have cleared.
	ointment only.	

Boldface indicates generic availability

Utilization Management Recommendation

• There is not significant potential for inappropriate use.

Product Comparison

- CPAC score: 52 vs. pimecrolimus (Elidel) Equal therapeutic outcomes anticipated.
- Equal therapeutic outcomes are anticipated for crisaborole and pimecrolimus, therefore it would be appropriate to provide equal access to both or to require a trial of one before the other.
- It would be clinically appropriate to require a trial of a low to medium potency topical corticosteroid prior to initiation of Eucrisa.

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REFERENCES

¹ Eucrisa prescribing information. Anacor Pharmaceuticals, Inc. December 2016.

² Paller AS, Tom WL, Lebwohl MG, et al. Efficacy and safety of crisaborole ointment, a novel, nonsteroidal phosphodiesterase 4 (PDE4) inhibitor for the topical treatment of atopic dermatitis (AD) in children and adults. J Am Acad Dermatol. 2016;75:3:494-503.