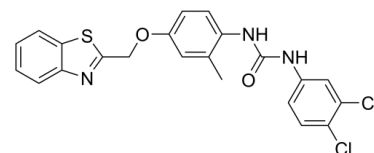


Data Sheet

| | |
|---------------------------|---|
| Product Name: | Diflapolin |
| Cat. No.: | CS-0095399 |
| CAS No.: | 724453-98-9 |
| Molecular Formula: | C ₂₂ H ₁₇ Cl ₂ N ₃ O ₂ S |
| Molecular Weight: | 458.36 |
| Target: | Epoxide Hydrolase; FLAP |
| Pathway: | Immunology/Inflammation; Metabolic Enzyme/Protease |
| Solubility: | DMSO : 83.33 mg/mL (181.80 mM; Need ultrasonic) |



BIOLOGICAL ACTIVITY:

Diflapolin is a highly active dual 5-lipoxygenase-activating protein (**FLAP**)/soluble epoxide hydrolase (**sEH**) inhibitor with marked anti-inflammatory efficacy and high target selectivity. Diflapolin inhibits 5-LOX product formation in intact human monocytes and neutrophils with **IC₅₀s** of 30 and 170 nM, respectively, and suppressed the activity of isolated sEH (**IC₅₀**=20 nM)^[1]. *In Vivo*: Diflapolin (1-10 mg/kg; i.p.; 30 min before zymosan injection) exhibits potent anti-inflammatory properties in in-vivo experiments^[1].

References:

[1]. Garscha U, et al. Pharmacological profile and efficiency in vivo of diflapolin, the first dual inhibitor of 5-lipoxygenase-activating protein and soluble epoxide hydrolase. Sci Rep. 2017;7(1):9398. Published 2017 Aug 24.

CAIndexNames:

Urea, N-[4-(2-benzothiazolylmethoxy)-2-methylphenyl]-N'-(3,4-dichlorophenyl)-

SMILES:

O=C(NC1=CC=C(C(Cl)C(Cl)=C1)NC2=CC=C(OCC3=NC4=CC=CC=C4S3)C=C2C

Caution: Product has not been fully validated for medical applications. For research use only.

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