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## Product Data Sheet

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Product Name: DHMEQ racemate (rel-DHMEQ)

Cat. No.: GC33150

### Chemical Properties

Cas. No. 287194-38-1

SMILES O=C1[C@H]2[C@H](O2)[C@H](O)C(NC(C3=C(O)C=CC=C3)=O)=C1.O=C4[C@@H](O5)[C@@H]5[C@@H](O)C(NC(C6=C(O)C=CC=C6)=O)=C4.[relative stereochemistry]

Formula  $C_{13}H_{11}NO_5$  M.Wt 261.23Solubility DMSO :  $\geq 32$  mg/mL (122.50 mM) Storage Store at  $-20^{\circ}C$ 

General tips For obtaining a higher solubility , please warm the tube at  $37^{\circ}C$  and shake it in the ultrasonic bath for a while. Stock solution can be stored below  $-20^{\circ}C$  for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure DHMEQ racemate (rel-DHMEQ)

### Background

DHMEQ racemate is a NF- $\kappa$ B inhibitor. DHMEQ racemate is less active than (-)-DHMEQ.

DHMEQ racemate (DHM3EQ) and (-)-DHMEQ (DHM2EQ) inhibits TNF- $\alpha$ -induced NF- $\kappa$ B activation. (-)-DHMEQ is more potent and less toxic than DHMEQ racemate[1].

The antiarthritic effects of (-)-DHMEQ (DHM2EQ) and DHMEQ racemate (DHM3EQ) are examined on type-II collagen-induced arthritis in DBA1/J mice. This animal model is widely used for evaluation of antirheumatic drugs because of its pathological similarities to human rheumatoid arthritis. The arthritis is elicited and scored. (-)-DHMEQ markedly inhibits type-II-collagen-induced arthritis in mice, whereas DHMEQ racemate tends to only slightly inhibit it[1].

[1]. Matsumoto N, et al. Synthesis of NF-kappaB activation inhibitors derived from epoxyquinomicin C. Bioorg Med Chem Lett. 2000 May 1;10(9):865-9.

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

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