

Product Data Sheet

Product Name: TAS 205
Cat. No.: GC48447

Chemical Properties

Cas. No. 1584160-52-0

SMILES O=C(N1CCN(CC1)C(C2=CC=CN2C)=O)NC3=CC=C(N4CCC(CC4)C(N5CCOCC5)=O)C=C3.O

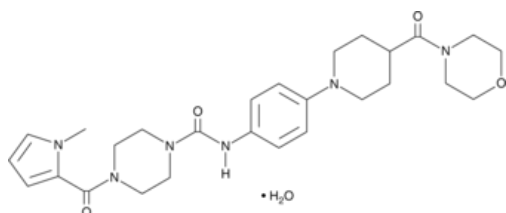
Formula C₂₇H₃₆N₆O₄•H₂O M.Wt 526.6

Solubility DMF: 30 mg/ml, DMSO: 30 mg/ml, Ethanol: 30 mg/ml, Ethanol: PBS (pH 7.2) (1:4): 0.20 mg/ml
Storage -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°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



Background

TAS 205 is an inhibitor of hematopoietic prostaglandin D synthase (H-PGDS; IC₅₀ = 55.8 nM).¹ It is selective for H-PGDS over lipocalin-type PGDS (L-PGDS) at 100 μM, as well as over enzyme and receptor panels at 10 μM. TAS 205 inhibits production of prostaglandin D₂ induced by A23187 in KU812 human and RBL-2H3 rat basophils with IC₅₀ values of 78.3 and 181.3 nM, respectively. It inhibits ovalbumin-induced nasal lavage fluid eosinophil infiltration and late-phase nasal obstruction in an ovalbumin-sensitized guinea pig model of allergic rhinitis when administered at a dose of 30 mg/kg.

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

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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1. Aoyagi, H., Kajiwar, D., Tsunekuni, K., et al. Potential synergistic effects of novel hematopoietic prostaglandin D synthase inhibitor TAS-205 and different types of anti-allergic medicine on nasal obstruction in a Guinea pig model of experimental allergic rhinitis *Eur. J. Pharmacol.* 875:173030 (2020)

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