
Product Data Sheet

Product Name: ONO 6818

Cat. No.: GC50225

Chemical Properties

Cas. No. 208848-19-5

SMILES O=C(NC(C(C)C)C(C1=NN=C(C(C)(C)C)O1)=O)CN(C(C2=CC=CC=C2)=NC=C3N)C3=OFormula $C_{23}H_{28}N_6O_4$ M.Wt 452.51

Solubility DMSO : 100 mg/mL (220.99 mM; Need ultrasonic) Storage Store at -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**

High affinity and selective human neutrophil elastase 1 (HNE1) inhibitor ($K_i = 12$ nM). Exhibits >100-fold less activity at other related proteases including trypsin, pancreatic elastase, collagenase and murine macrophage elastase. Inhibits HNE-induced lung hemorrhaging and suppresses leukocyte levels in an in vivo model of COPD. Orally active.

Hirota et al (2004) Effects of the neutrophil elastase inhibitor (ONO-6818) on acetic acid induced colitis in Syrian hamsters. J.Vet.Med.Sci. 66 1223 PMID:15528853 |Aoshiba et al (2001) Serine proteases increase oxidative stress in lung cells. Am.J.Physiol.Lung Cell Mol.Physiol. 281 556 PMID:11504681 |Stevens et al (2011) AZD9668: pharmacological characterization of a novel oral inhibitor of neutrophil elastase. J.Pharmacol.Exp.Ther. 339 313 PMID:21791628

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

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