
Product Data Sheet

Product Name: Ubch5c-IN-1

Cat. No.: GC33885

Chemical Properties

Cas. No. 2123480-72-6

SMILES BrC1=CC=CC=C1COC2=C(C)C([C@H](OC(C3=C)O)[C@H]3CC4)=C4C(C)=C2

Formula	C ₂₂ H ₂₁ BrO ₃	M.Wt	413.3
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Solubility	Soluble in DMSO	Storage	Store at -20°C
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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**

Ubch5c-IN-1 (compound 6d) is a potent and selective small-molecule inhibitor of Ubiquitin-conjugating enzyme Ubch5c, with a K_d of 283 nM for E2 Ubch5c-IN-1 by covalent binding with Cys85. A promising lead compound for the development of new antirheumatoid arthritis (RA) agent[1].

Ubch5c-IN-1 (compound 6d) (5 and 20 mg/kg, p.o., daily, 10-20 days) treatment in Freund's adjuvant (CFA)-induced adjuvant arthritis (AA) rat model results in appreciable decreases in the arthritis index score and hind paw swelling rate compared with those of the vehicle-treated AA model control group[1].| Animal Model:|Freund's adjuvant (CFA)-induced adjuvant arthritis (AA) rat model[1].|Dosage:|5 and 20 mg/kg|Administration:|Oral administration daily between day 10-20 postimmunization.|Result:|Resulted in appreciable decreases in the arthritis index score and hind paw swelling rate compared with those of the vehicle-treated AA model control group.

[1]. Chen H, et al. Discovery of Potent Small-Molecule Inhibitors of Ubiquitin-Conjugating

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

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Enzyme Ubch5c from α -Santonin Derivatives. J Med Chem. 2017 Aug 24;60(16):6828-6852.

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