

ITH15004

## Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

## Biological Description

Description	ITH15004 is a non-nucleotide antagonist of the purinergic P2X7receptor (IC50= 9 $\mu$ M in HEK293 cells expressing the human receptor).It inhibits ATP-induced currents inX. laevisooocytes expressing the human P2X7receptor when used at a concentration of 100 $\mu$ M. ITH15004 (1 $\mu$ M) decreases IL-1 $\beta$ release from LPS-primed, ATP-stimulated isolated mouse peritoneal macrophages. It has high permeability in a parallel artificial membrane permeability assay (PAMPA).
Targets(IC50)	Others

## Solubility Information

Solubility	DMSO: 10 mg/mL,Sonication is recommended. DMF: 20 mg/mL,Sonication is recommended. DMF:PBS (pH 7.2) (1:3): 0.25 mg/mL,Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Reference

Calzaferri, F., Narros-Fernández, P., de Pascual, R., et al.Synthesis and pharmacological evaluation of novel non-nucleotide purine derivatives as P2X7 antagonists for the treatment of neuroinflammationJ. Med. Chem.64(4)2272-2290(2021)

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