# Data Sheet (Cat.No.T60979)



## Oxaprozin potassium

Chemical Propert	ies
CAS No. :	174064-08-5
Formula:	С18Н14КNОЗ
Molecular Weight:	331.412
Appearance:	no data available
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year

#### **Biological Description**

Description	Oxaprozin potassium is an orally active and potent inhibitor of COX, with IC 50 value 2.2 μM and 36 μM for human platelet COX-1 and for IL-1-stimulated human synovia COX-2, respectively. Oxaprozin potassium induces cell apoptosis. Oxaprozin potass also inhibits the NF-κB activation. Oxaprozin potassium-mediated inhibition of the Akt/IKK/NF-κB pathway contributes to its anti-inflammatory properties [1] [2].	
In vitro	Oxaprozin, across a concentration range of 0-100 μM, triggers apoptosis in a dose- dependent manner, with its most potent proapoptotic effect observed at 100 μM. This compound specifically elevates caspase-3 activity under activated conditions, while not affecting it in resting states. At a concentration of 50 μM, Oxaprozin effectively suppresses NF-κB activation and blocks the induction of the IKK system by IκBα. Furthermore, Oxaprozin significantly enhances apoptosis in CD40L-treated monocytes and abrogates CD40L-induced Akt and NF-κB (p65) phosphorylation, underscoring its potential in modulating inflammatory and apoptotic pathways.	

### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0174 mL	15.0871 mL	30.1741 mL
5 mM	0.6035 mL	3.0174 mL	6.0348 mL
10 mM	0.3017 mL	1.5087 mL	3.0174 mL
50 mM	0.0603 mL	0.3017 mL	0.6035 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

#### Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only. Not for Human or Veterinary or Therapeutic Use

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