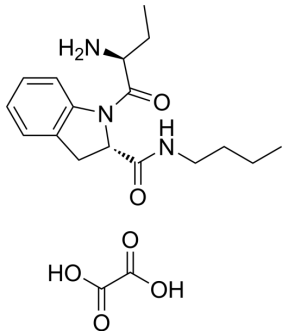
Butabindide oxalate

Cat. No.:	HY-107759		
CAS No.:	185213-03-0		
Molecular Formula:	$C_{19}H_{27}N_3O_6$		
Molecular Weight:	393.43		
Target:	Others		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

H_2O : 39 mg/mL (99.13 mM; Need ultrasonic and warming)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.5417 mL	12.7087 mL	25.4175 mL
	5 mM	0.5083 mL	2.5417 mL	5.0835 mL
	10 mM	0.2542 mL	1.2709 mL	2.5417 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Butabindide (UCL-1397) oxalate is a potent, selective tripeptidvl peptidase II (TPP II) inhibitor with K_i values of 7 nM and 10 μM for TPP II and TPP I, respectively. Butabindide oxalate inhibits TPP II to protect CCK-8 against inactivation[1][2].

IC_{50} & Target

IC50: 7 nM (TPP II) and 10 μM (TPP I)[1]

In Vitro

Butabindide (UCL-1397; 0-24 nM; membranes of rat cerebral cortex) oxalate inhibits TPP II activity of cerebral membranes[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

Butabindide (UCL-1397; 10 mg/kg; i.v.; for 20 min) oxalate inhibits the breakdown of CCK-8 in the gastrointestinal tract and increases satiety in mice[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Mice (25-30 g)[2]

Dosage:	10 mg/kg
Administration:	Intravenous injection; for 20 minutes
Result:	Reduces food intake and elicits other behavioral concomitants of satiation.

REFERENCES

[1]. Ganellin CR, et, al. Inhibitors of tripeptidyl peptidase II. 3. Derivation of butabindide by successive structure optimizations leading to a potential general approach to designing exopeptidase inhibitors. J Med Chem. 2005 Nov 17;48(23):7333-42.

[2]. Rose C, et, al. Characterization and inhibition of a cholecystokinin-inactivating serine peptidase. Nature. 1996 Apr 4;380(6573):403-9.

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