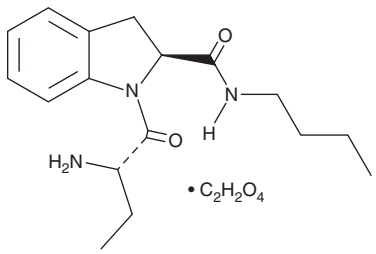
PRODUCT INFORMATION

Butabindide (oxalate)

Item No. 21610

CAS Registry No.: 185213-03-0
Formal Name: [S-(R*,R*)]-1-(2-amino-1-oxobutyl)-N-butyl-2,3-dihydro-1H-indole-2-carboxamide, monoethanedioate
MF: $C_{17}H_{25}N_3O_2 \bullet C_2H_2O_4$
FW: 393.4
Purity: ≥98%
UV/Vis.: λ_{max}: 250, 280, 288 nm
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Butabindide (oxalate) is supplied as a crystalline solid. A stock solution may be made by dissolving the butabindide (oxalate) in the solvent of choice, which should be purged with an inert gas. Butabindide (oxalate) is soluble in the organic solvent dimethyl formamide (DMF) at a concentration of approximately 1.6 mg/ml.

Butabindide (oxalate) is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, butabindide (oxalate) should first be dissolved in DMF and then diluted with the aqueous buffer of choice. Butabindide (oxalate) has a solubility of approximately 0.1 mg/ml in a 1:9 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Butabindide is a potent inhibitor of cholecystokinin-inactivating peptidase/tripeptidyl peptidase 2 (CCK-inactivating peptidase/TPP-2; K_i = 7 nM).[1] It is selective for CCK-inactivating peptidase/TPP-2 over a panel of serine proteases (K_is = >1 µM) as well as CCK receptors (K_is = >0.1 mM). Butabindide (0.1-100 µM) increases levels of CCK octapeptide (Item Nos. 24404 | 23371) in depolarized rat cerebral cortex slices. *In vivo*, butabindide inhibits CCK-inactivating peptidase/TPP-2 in mouse liver and brain (ID_{50}s = 1.1 and 6.8 mg/kg, respectively). It also enhances CCK octapeptide-induced delay in gastric emptying and reduces food intake in mice.

Reference

1. Rose, C., Vargas, F., Facchinetti, P., *et al.* Characterization and inhibition of a cholecystokinin-inactivating serine peptidase. *Nature* **380(6573)**, 403-409 (1996).

CAYMAN CHEMICAL
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
PHONE: [800] 364-9897
[734] 971-3335
FAX: [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.**CAYMANCHEM**.COM