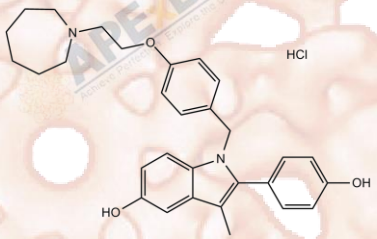
Product Data Sheet

Bazedoxifene HCl



Cat. No.: B1519

CAS No.: 198480-56-7

Formula: C30H34N2O3·HCl

M.Wt: 507.06

Synonyms:

Target: Endocrinology and Hormones

Pathway: Estrogen/progestogen Receptor

Storage: Store at -20°C

Solvent & Solubility

In Vitro

⩾25.35 mg/mL in DMSO

Preparing Stock Solutions

Mass / Solvent / Concentration	1mg	5mg	10mg
1 mM	1.9722 mL	9.8608 mL	19.7215 mL
5 mM	0.3944 mL	1.9722 mL	3.9443 mL
10 mM	0.1972 mL	0.9861 mL	1.9722 mL

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

Biological Activity

Shortsummary	Novel, non-steroidal, indole-based estrogen receptor modulator (SERM)
IC_{50} & Target	

In Vitro

Cell Viability Assay

Cell Line:	CHO cells, HepG2 cells, GT1–7 cells, MCF-7 cells
Preparation method:	The solubility of this compound in DMSO is >25.4mg/mL. General tips for obtaining a higher concentration: Please warm the tube at 37°C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.
Reacting conditions:	0.1 pM-10 nM

	Applications:	Co-treatment with 1.0 nM 17β-estradiol and bazedoxifene had an IC50 of 22.0 nM in CHO cells, 4.97 nM in HepG2 cells, and 10.0 nM in GT1–7 cells. In HepG2 cells transfected with hepatic lipase promoter luciferase construct, bazedoxifene functioned as an agonist with an EC50 of 100.0 nM. In MCF-7 cell, co-treatment with 17β-estradiol and bazedoxifene dose-dependently inhibited cell proliferation with an IC50 of 0.19 nM.
In Vivo	**Animal experiment**	
	Animal models:	An immature rat uterine model
	Dosage form:	0.5 and 5.0 mg/kg; once daily for 3 d; administered orally
	Applications:	In an immature rat uterine model, bazedoxifene (BZA) increased uterine wet weight by 35% at 0.5 mg/kg andno significant difference at 5 mg/kg. Histological examination of the entire uterus revealed BZA does not affect luminal epithelial cell hypertrophy or hyperplasia, myometrial hypertrophy, or luminal distention. BZA resulted in only a slight, insignificant increase in luminal cell height.
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal.

Product Citations

See more customer validations on www.apexbt.com.

References

[1] Komm B S, Kharode Y P, Bodine P V N, et al. Bazedoxifene acetate: a selective estrogen receptor modulator with improved selectivity[J]. Endocrinology, 2005, 146(9): 3999-4008.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

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