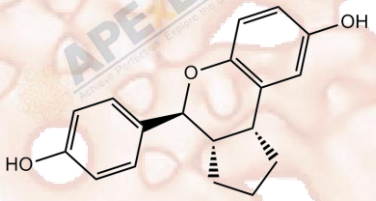
Product Data Sheet

Erteberel (LY500307)



Cat. No.: B1518
CAS No.: 533884-09-2
Formula: C18H18O3
M.Wt: 282.33
Synonyms:
Target: Endocrinology and Hormones
Pathway: Estrogen/progestogen Receptor
Storage: Store at -20°C

Solvent & Solubility

In Vitro

insoluble in H2O; ⩾14.1 mg/mL in DMSO; ⩾48.3 mg/mL in EtOH

Preparing Stock Solutions

Concentration \ Mass / Solvent	1mg	5mg	10mg
1 mM	3.5420 mL	17.7098 mL	35.4195 mL
5 mM	0.7084 mL	3.5420 mL	7.0839 mL
10 mM	0.3542 mL	1.7710 mL	3.5420 mL

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

Biological Activity

Shortsummary	ERβ agonist, potent and selective
IC_{50} & Target	

In Vitro

Cell Viability Assay

Cell Line:	Human prostate cancer cell line (PC-3 cells)
Preparation method:	The solubility of this compound in DMSO is >10 mM. 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:	N/A

	Applications:	Erteberel showed potent and selective binding affinity for ERβ with EC50 value of 0.66 nM [1].
In Vivo	**Animal experiment**	
	Animal models:	Male and female rat fertility and rat and rabbit embryo-fetal development model
	Dosage form:	0.03 to 10 mg/kg/day for rats, or 1 to 25 mg/kg/day for rabbits, oral gavage, for 2 or 10 weeks
	Applications:	There were no-observed adverse effect levels following LY500307 administration of 1 mg/kg/day for male rat fertility, 0.3 mg/kg/day for female rat fertility and embryo-fetal development, and 25 mg/kg/day for rabbit embryo-fetal development [2].
	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. Norman, B. H., Dodge, J. A., Richardson, T. I., Borromeo, P. S., Lugar, C. W., Jones, S. A., Chen, K., Wang, Y., Durst, G. L., Barr, R. J., Montrose-Rafizadeh, C., Osborne, H. E., Amos, R. M., Guo, S., Boodhoo, A. and Krishnan, V. (2006) Benzopyrans are selective estrogen receptor beta agonists with novel activity in models of benign prostatic hyperplasia. J Med Chem. 49, 6155-6157
2. Hilbish, K. G., Breslin, W. J., Johnson, J. T. and Sloter, E. D. (2013) Fertility and developmental toxicity assessment in rats and rabbits with LY500307, a selective estrogen receptor beta (ERbeta) agonist. Birth Defects Res B Dev Reprod Toxicol. 98, 400-415

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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