

Product Name : Galeterone

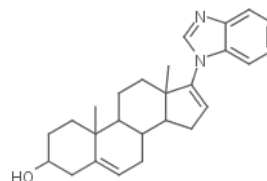
Synonyms : TOK001;NX41765; VN-1241; Galeterone.

Cat No. : M17617

CAS Number : 851983-85-2

Molecular Formula : C₂₆H₃₂N₂O

Formula Weight : 388.55



Chemical Name : (3S,8R,9S,10R,13S,14S)-17-(1H-benzo[d]imidazol-1-yl)-10,13-dimethyl-2,3,4,7,8,9,10,11,12,13,14,15-dodecahydro-1H-cyclopenta[a]phenanthren-3-ol

Description : Galeterone is an orally bioavailable small-molecule androgen receptor modulator and CYP17 lyase inhibitor with potential antiandrogen activity. Galeterone exhibits three distinct mechanisms of action: 1) as an androgen receptor antagonist, 2) as a CYP17 lyase inhibitor and 3) by decreasing overall androgen receptor levels in prostate cancer tumors, all of which may result in a decrease in androgen-dependent growth signaling. Localized to the endoplasmic reticulum (ER), the cytochrome P450 enzyme CYP17 (P450C17 or CYP17A1) exhibits both 17 α -hydroxylase and 17, 20-lyase activities, and plays a key role in the steroidogenic pathway that produces progestins, mineralocorticoids, glucocorticoids, androgens, and estrogens.

Pathway : Others

Target : Other Targets

Receptor : Androgen Receptor; CYP17

Solubility : DMSO : 18 mg/mL. 46.33 mM;

SMILES : C[C@]12CC[C@@H](CC1=CC[C@@H]1[C@@H]2CC[C@]2([C@H]1CC=C2n1cnc2cccc12)C)O

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Handratta VD, et al. J Med Chem, 2005, 48(8), 2972-2984.