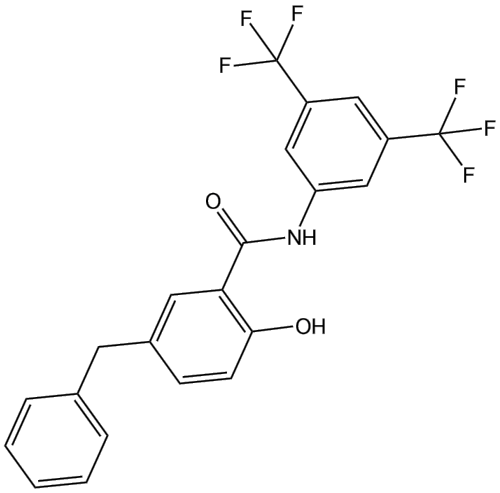
Product Data Sheet

Product Name: LX1
Cat. No.: GC27918

Chemical Properties

Cas. No.	2647877-84-5		
Chemical Name	Benzamide, N-[3,5-bis(trifluoromethyl)phenyl]-2-hydroxy-5-(phenylmethyl)-		
SMILES	O=C(NC1=CC(C(F)(F)F)=CC(C(F)(F)F)=C1)C2=C(O)C=CC(CC3=CC=CC=C3)=C2		
Formula	$C_{22}H_{15}F_6NO_2$	M.Wt	439.35
Solubility	DMSO : 100 mg/mL (227.61 mM; Need ultrasonic)	Storage	-20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		

Structure



Background

Caution: Product has not been fully validated for medical applications. For research use only.
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Address: 10292 Central Ave. #205, Montclair, CA, USA

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LX1 is an anti-prostate cancer compound that targets androgen receptor (AR), AR variants and steroidogenic enzyme AKR1C3. LX1 inhibits the enzymatic activity of AKR1C3, reduces the conversion of androstenedione to testosterone and reduces the expression of AR and AR-V7 and downregulates their target genes. LX1 overcomes the resistance of tumor cells to Enzalutamide, and the combination with Enzalutamide further inhibits tumor growth[1].

References:

[1]. Shu Ning, et al. "LX1 Targets Androgen Receptor Variants and AKR1C3 to overcome Therapy Resistance in Advanced Prostate Cancer." Cancer Research (2024).

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