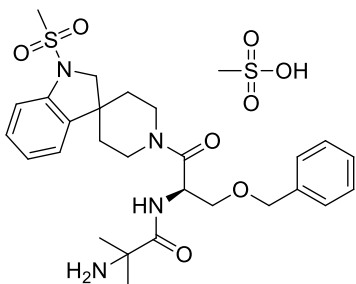


Certificate of Analysis

MedKoo Cat#:	Product Name:	Lot#
201684	Ibutamoren mesylate	TZC50409

Chemical name	
2-amino-2-methyl-N-[(2R)-1-(1-methylsulfonylspiro[2H-indole-3,4'-piperidine]-1'-yl)-1-oxo-3-(phenylmethoxy)propan-2-yl]propanamide mesylate.	
Synonyms	
Ibutamoren; L 163191; L163191; L-163191; MK0677; MK-0677; MK0677; MK677; MK-677; MK 677.	
Chemical structure	CAS# and Theoretical analysis
	MedKoo Cat#: 201684 Name: Ibutamoren mesylate CAS#: 159752-10-0 Lot#: TZC50409 Chemical Formula: C ₂₈ H ₄₀ N ₄ O ₈ S ₂ Molecular Weight: 624.77 Ibutamoren (free base) Chemical Formula: C ₂₇ H ₃₆ N ₄ O ₅ S Exact Mass: 528.24064; Molecular Weight: 528.66

Analysis item	Specification/Results
Appearance	White solid powder
Structure	¹ H-NMR and MS spectrum of the sample correspond to the data reported in the literature
Purity (HPLC)	>99.0%
Solubility	Soluble in DMSO.
Conclusion	This product conforms with MedKoo's quality standards
Shipping condition	Shipped under ambient temperature as non-hazardous chemical. This product is stable for a few weeks during ordinary shipping and time spent in Customs.
Storage condition	Short term storage (weeks): 0 – 4 °C under dry condition Long term storage (months): -20 °C under dry condition
Self life	At least 5 years if properly stored.

CAUTION: NOT FULLY TESTED. FOR RESEARCH ONLY, NOT FOR HUMAN USE