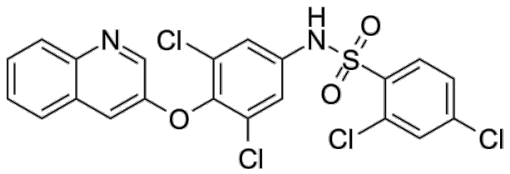
Product Data Sheet

Product Name: AMG131
Cat. No.: GC62836

Chemical Properties

Cas. No.	315224-26-1		
Formula	$C_{21}H_{12}Cl_4N_2O_3S$	M.Wt	514.21
Solubility	DMSO : 250 mg/mL (486.18 mM; Need ultrasonic)	Storage	Store at -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

AMG131 (INT131), a potent and highly selective PPARγ partial agonist, binds to PPARγ and displaces Rosiglitazone with a Ki of ~10 nM. AMG131 can be used for research of type-2 diabetes mellitus (T2DM)[1][2].

AMG131 (INT131) binds to PPARγ and displaces Rosiglitazone with a Ki of ~10 nM, demonstrating

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~20-fold higher affinity than either Rosiglitazone or Pioglitazone, and with greater than 1000-fold selectivity for PPARγ over PPARα, PPARδ, or a set of other nuclear receptors. AMG131 is highly selective for PPARγ, with no binding to PPARα or δ at 10 μM, 1000 fold over the Ki for PPARγ[1].

AMG131 (INT131; 80 mg/kg; 14-day oral treatment) increases in glucose tolerance in Zucker (fa/fa) rats following[2]

[1]. Linda S Higgins,et al. The Development of INT131 as a Selective PPARgamma Modulator: Approach to a Safer Insulin Sensitizer. PPAR Res. 2008;2008:936906.
[2]. Alykhan Motani, et al. INT131: a selective modulator of PPAR gamma. J Mol Biol. 2009 Mar 13;386(5):1301-11.

Caution: Product has not been fully validated for medical applications. For research use only.
Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA