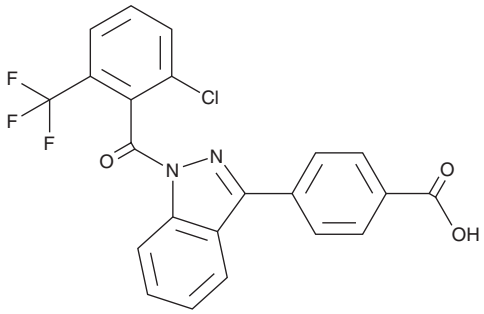
PRODUCT INFORMATION

MRL-871

Item No. 46230



CAS Registry No.:	1392809-08-3
Formal Name:	4-[1-[2-chloro-6-(trifluoromethyl) benzoyl]-1H-indazol-3-yl]-benzoic acid
MF:	$C_{22}H_{12}ClF_3N_2O_3$
FW:	444.8
Purity:	≥98%
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

MRL-871 is supplied as a solid. A stock solution may be made by dissolving the MRL-871 in the solvent of choice, which should be purged with an inert gas. MRL-871 is soluble (≥10 mg/ml) in DMSO.

Description

MRL-871 is an inverse agonist of retinoic acid receptor-related orphan receptor γt (RORγt).[1] It inhibits the RORγt ligand-binding domain (LBD) recruitment of steroid receptor co-activator 1 (SRC-1; IC_{50} = 6.1 nM). MRL-871 is also a partial agonist of peroxisome proliferator-activated receptor γ (PPARγ); however, it is 43-fold selective for RORγt over PPARγ.[2] It reduces the level of IL-17a in isolated human peripheral blood mononuclear cells (PBMCs; IC_{50} = 39.6 nM) and decreases the number of double-positive and total thymocytes in the thymus of adult mice.[1,3]

References

1. Scheepstra, M., Leysen, S., van Almen, G.C., *et al.* Identification of an allosteric binding site for RORγt inhibition. *Nat. Commun.* **6,** 8833 (2015).
2. Leijten-van de Gevel, I.A., van Herk, K.H.N., de Vries, R.M.J.M., *et al.* Indazole MRL-871 interacts with PPARγ via a binding mode that induces partial agonism. *Bioorg. Med. Chem.* **68,** 116877 (2022).
3. Guo, Y., MacIsaac, K.D., Chen, Y., *et al.* Inhibition of RORγT skews TCRα gene rearrangement and limits T cell repertoire diversity. *Cell Rep.* **17(12),** 3206-3218 (2016).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

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CAYMAN CHEMICAL
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
PHONE: [800] 364-9897
[734] 971-3335
FAX: [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.**CAYMANCHEM**.COM