

Product Data Sheet

Product Name: ER176
Cat. No.: GC70843

Chemical Properties

Cas. No. 1373887-29-6

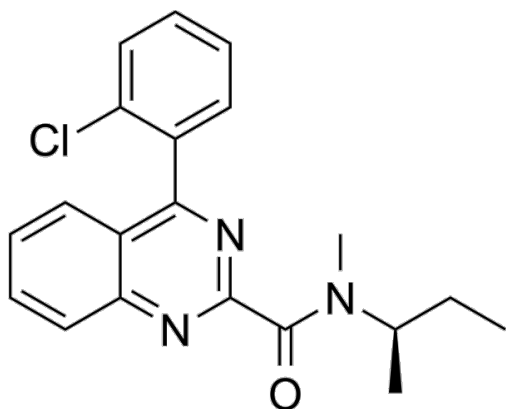
Formula $C_{20}H_{20}ClN_3O$ M.Wt 353.85

Solubility DMSO : 100 mg/mL (282.61 mM); Storage -20°C
Need ultrasonic; Hygroscopic DMSO has a significant impact on the solubility of product, please use newly opened DMSO)

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

ER176 is a next generation PET radioligand for imaging 18 kDa translocator protein (TSPO), a biomarker for neuroinflammation.

ER176 shows homozygous high-affinity binders (HABs)/heterozygous mixed affinity binders (MABs)

Caution: Product has not been fully validated for medical applications. For research use only.

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ratio for BP ND (specific-to-non-displaceable ratio of distribution volumes) of 1.2^[1].

References:

- [1]. Masahiro Fujita, et al. Comparison of four ¹¹C-labeled PET ligands to quantify translocator protein 18 kDa (TSPO) in human brain: (R)-PK11195, PBR28, DPA-713, and ER176-based on recent publications that measured specific-to-non-displaceable ratios. EJNMM
- [2]. Jason C Mixdorf, et al. Alternative strategies for the synthesis of [¹¹C]ER176 for PET imaging of neuroinflammation. Appl Radiat Isot. 2021 Sep 17;178:109954.

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