

Product Name	: ONO-2952
Synonyms	: ONO 2952; ONO2952
Cat No.	: M16447
CAS Number	: 895169-20-7
Molecular Formula	: C ₂₂ H ₂₀ ClFN ₂ O ₂
Formula Weight	: 398.86
Chemical Name	: 1-[(1S)-1-(4-Chloro-2-methoxyphenyl)-5-fluoro- 1,9-dihydrospiro[b-carboline-4,10 -cyclopropan]-2(3H)-yl]ethanone
Description	A novel potent, selective, orally active translocator protein 18 kDa (TSPO/PBR) antagonist with K_i of 0.33-9.3 nM for both rat and human TSPO; displays high selectivity over 98 other receptors, transporters, ion channels and enzymes; inhibits both neurosteroid accumulation and noradrenaline release in the brain of rats exposed to acute stress; suppresses conditioned fear stress-induced freezing behavior in rats with an efficacy equivalent to that of diazepam, but without not affect learning and memory. Irritable Bowel Syndrome Phase 2 Clinical
Pathway	: Others
Target	: TSPO
Receptor	: TSPO
Solubility	: —
SMILES	: <chem>CC(N([C@H]1C2=CC=C(Cl)C=C2OC)CC3(C4=C1NC5=C4C(F)=CC=C5)CC3)=O</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

1. Mitsui K, et al. Neuropharmacology. 2015 Dec;99:51-66. 2. Mitsui K, et al. J Pharmacol Exp Ther. 2017 Mar;360(3):457-465. 3. Frankle WG, et al. Synapse. 2017 Jul;71(7). 4. Mitsui K, et al. Neuropharmacology. 2015 Dec;99:51-66.