

Product Name	: TPA023
Synonyms	: MK-0777
Cat No.	: M13749
CAS Number	: 252977-51-8
Molecular Formula	: C ₂₀ H ₂₂ FN ₇ O
Formula Weight	: 395.44
Chemical Name	: 7-(1,1-Dimethylethyl)-6-(2-ethyl-2H-1,2,4-triazol-3-ylmethoxy)-3-(2-fluorophenyl)-1,2,4-triazolo[4,3-b]pyridazine
Description	: TPA023 is a potent, α 2/ α 3 subtype-selective, and oral GABAA receptor agonist with K _d of 0.92, 1.05 and 0.58 nM for α 1-, α 2-, α 3-, and α 5-containing human receptors; shows much lower (50- to 2000-fold) affinities for α 4 and α 6 subtypes (K _i = 60 and 418 nM, respectively); demonstrates anxiolytic-like efficacy and anticonvulsant activity in mouse pentylenetetrazole seizure model. Anxiety Discontinued
Pathway	: Membrane Transporter/Ion Channel
Target	: GAT
Receptor	: GAT
Solubility	: —
SMILES	: <chem>FC1=CC=CC=C1C2=NN=C3C=C(C(C)(C)C)C(OCC4=NC=NN4CC)=NN32</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

1. Atack JR, et al. J Pharmacol Exp Ther. 2010 Jan;332(1):17-25. | 2. de Haas SL, et al. J Psychopharmacol. 2007 Jun;21(4):374-83. | 3. Carling RW, et al. J Med Chem. 2005 Nov 17;48(23):7089-92. | 4. Atack JR, et al. J Pharmacol Exp Ther. 2006 Jan;316(1):410-22.