

Product Name	: Masitinib
Synonyms	: AB1010;AB-1010;AB 1010
Cat No.	: M15968
CAS Number	: 790299-79-5
Molecular Formula	: C ₂₈ H ₃₀ N ₆ O ₂ S
Formula Weight	: 498.64
Chemical Name	: Benzamide, 4-[(4-methyl-1-piperazinyl)methyl]-N-[4-methyl-3-[[4-(3-pyridinyl)-2-thiazolyl]amino]phenyl]-
Description	: A potent tyrosine kinase inhibitor targeting c-Kit and PDGFR with IC ₅₀ of 0.15 and 0.05 uM in cell based assays; also inhibits Lyn, and to a lesser extent, FGFR3, and inhibits KIT gain-of-function mutants V559D (IC ₅₀ =3.0 nM) and Δ27 mouse mutant (IC ₅₀ =5 nM); dose-dependently inhibits SCF-induced cell proliferation in Ba/F3 cells expressing human wild-type KIT (IC ₅₀ =150 nM); inhibits tumour growth in vivo. Prostate cancer Phase 3 Clinical
Pathway	: Angiogenesis
Target	: c-Kit
Receptor	: Abl1;c-Fms;Hck;Kit;LynB;PDGFRα;PDGFRβ;Src
Solubility	: DMSO: ≥ 26 mg/mL
SMILES	: <chem>O=C(NC1=CC=C(C)C(NC2=NC(C3=CC=CN=C3)=CS2)=C1)C4=CC=C(CN5CCN(C)CC5)C=C4</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

1. Dubreuil P, et al. PLoS One. 2009 Sep 30;4(9):e7258. | 2. Humbert M, et al. Allergy. 2009 Aug;64(8):1194-201. | 3. Tebib J, et al. Arthritis Res Ther. 2009;11(3):R95.