

DATA SHEET

Product Name:	Imatinib Mesylate
Catalog #:	N-3020
Alt:	CAS# 220127-57-1; 4-[(4-Methyl-1-piperazinyl)methyl]-N-[4-methyl-3-[[4-(3- pyridinyl)-2-pyrimidinyl]amino]-phenyl]benzamide methanesulfonate; STI-571
Source:	Synthetic
Molecular Mass:	589.7 C29H31N7O · CH3SO3H
Analysis:	98% (TLC); NMR (Conforms)
Supplied As:	White powder
Resuspension:	May be dissolved in DMSO (50 mg/ml); or water (50 mg/ml)
Storage:	Store desiccated as supplied at -20°C for up to 1 year. Store solutions at -20°C for up to 3 months.
Description:	Tyrosine kinase inhibitor specific for bcr-abl (IC50 = 38 nM) ¹ , PDGF-R (IC50 = $0.3 \ \mu$ M) ¹ and c-kit (IC50 = $0.1 \ \mu$ M) ² . It is a clinically useful anti-cancer drug approved for the treatment of chronic myelogenous leukemia, gastrointestinal stromal tumors as well as several other cancers ³ . Lowers A _β levels by indirect inhibition of Y-secretase without inhibiting Y-secretase processing of Notch1 ⁴ .
References:	 Buchdunger, E., et al., (1996) Cancer Res., <i>56</i>: 100 Heinrich, et al., (2000) Blood, <i>96</i>: 925 Deininger, M., et al., (2003) Pharmacol. Rev., <i>55</i>: 401 Netzer, W.J., et al., (2017) Proc. Natl. Acad. Sci. USA, <i>114</i>: 1389

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