

CERTIFICATE OF ANALYSIS

PRODUCT: **Leupeptin, Hemisulfate (Synthetic)**
Cathepsin B inhibitor; [Acetyl-Leu-Leu-Arg-al; Acetyl-L-leucyl-L-leucyl-L-argininal . hemisulfate]
 $C_{20}H_{38}N_6O_4 \bullet 0.5H_2SO_4$, M.W. 475.6, CAS# [103476-89-7]

PRODUCT NUMBER: L-1165

LOT NUMBER: J1181C

APPEARANCE: White powder

	<u>SPECIFICATIONS:</u>	<u>RESULTS:</u>
SOLUBILITY:	Clear colorless to faint yellow solution (50 mg/mL in H ₂ O)	Conforms
PURITY (HPLC):	≥ 90%	≥ 96.5%
OPTICAL ROTATION: <i>(Reported value only)</i>	$[\alpha]_D^{22}$ (C = 1, H ₂ O)	-78.0°
PEPTIDE CONTENT:	> 70%	> 85%
WATER CONTENT (KF):	< 10.0%	Conforms
COUNTRY of ORIGIN:	Germany	

STORAGE & HANDLING: Store desiccated at -20°C.
HYGROSCOPIC! PROTECT FROM LIGHT & MOISTURE!

CAUTION: For research use only. Not for human or drug use. The pharmacological and toxicological properties of this product have not been fully investigated. Use caution when handling. Do not use this compound if you are not fully trained or are unaware of the hazards involved.

Verified: KLS