



Issued May 2023

Product Name	ImpaRATOR™ Lyophilized
Product Number	G1-IR1-020
Product Composition	2000 Units of ImpaRATOR lyophilized in Tris buffered saline pH 7.6 (TBS).
Manufacturer	Genovis AB, Sweden.
Appearance	White to light yellow powder.
Source	ImpaRATOR is recombinantly expressed in <i>E. coli</i> .
Bioburden*	Absence of microbial contamination, tested on Sabouraud Dextrose Agar, Fluid Thioglycollate Medium and Blood Agar.
Enzyme Activity	<p>One unit of ImpaRATOR digests $\geq 95\%$ of 30 μg glycoprotein (etanercept) in TBS pH 7.6 at 37°C for 30 minutes, verified by SDS-PAGE.</p> <p>ImpaRATOR is an O-glycan-dependent protease that digests proteins carrying mucin-type O-glycans, including sialylated species, N-terminally of glycosylated Ser and Thr residues.</p>
Physical Purity	Purified to $\geq 90\%$ homogeneity as determined by SDS-PAGE analysis using Coomassie Blue detection.
Shipping Conditions	Shipped at ambient temperature.
Storage Temperature	-20°C.