

Supplemental table 1. Molecular mass (kDa) of human leptin pegylated with different PEG reagents

PEG reagent	Predicted value ^A	MALDI-TOF/ mass spectrometry	SDS-PAGE (10%)	Gel filtration
mPEG2-NHS 40 kDa	56	59.4	~ 120	~ 400
mPEG-SMB 30 kDa	46	47.0	~ 70	~ 310
mPEG-SMB 20 kDa ^B	56	60.3	~ 100	~ 400
mPEG-SMB 20 kDa ^C	36	38.3	~ 50	~ 220
mPEG2-butyryl-ALD 40 kDa	56	61.1	~ 120	~ 400
mPEG-butyryl-ALD 20 kDa	36	38.5	~ 50	~ 220

^AAssuming the molecular mass of leptin to be ~16 kDa

^BDi-pegylated species

^CMono-pegylated species