Table 1. Sialorphin is not metabolized by renal membranes containing NEP or pure renal NEP

Conditions	Intact peptide recovered, %
In vivo	
180 min postinjection of 3 nmol sialorphin	67
In vitro	
20 min incubation of 200 nM sialorphin + 6 nM pure renal NEP	90
Control without enzyme	89
10 min incubation of 200-1,200 nM sialorphin + rat kidney membranes	80-82
Control with NEP-inhibitor phosphoramidon	81
10 min incubation of 105 nM substance P + rat kidney membranes	20

HPLC chromatographic characteristics of the tissue or NEP-bound sialorphin. The data revealed that the uptake of sialorphin by renal tissue or pure renal NEP is biochemically stable, *in vivo* and *in vitro*, indicating that sialorphin is not hydrolyzed at the surface of kidney cells, *in vivo*, or by kidney membranes containing NEP and in particular by purified membrane-anchored renal NEP, *in vitro*. Thus, under various experimental conditions, a major amount of sialorphin was recovered as intact peptide; very similar to control recoveries.