

Supplementary Table 1. Sequence of the purified ALDH used in crystallization (507 amino acids)

Addition residues from the pRSF Duet-1 vector remained at the N-terminal of ALDH:

GSSHHHHHSQDP (13 amino acids)

Full length protein sequence of ALDH (394 amino acids)

(N-terminal)

1- MLKTNIELKPKVEAFLNEEIKMFINGEFVSAIGGKTFETYNPATEDVLAVVCEAQEEDIDVKAARSAFESGP
WAEMTTAERAHLIYKLADLIEEHREELAQLEALDNGKPYQVALDDDISATVENYRYYAGWTTKIIGQTIPISK
DYLNYTRHEPVGVVGGQIIPWNFPLVMSSWKMGAALATGCTIVLKPAEQTPLSLLYAAKLFKEAGFPNGVVNF
VPGFGPEAGAAIVNHHIDIKVAFTGSTVTGKYIMRQSAEMIKHVTLELGGKSPNIILEDADLEEAINGAFQGIM
YNHGQNCSAGSRVHVHRKHVYETVVDALVKMANNVKLGAGMEKETEMGPLVSKKQQERVLNYIEQGKKEG
ATVAAGGERALEKGYFVKPTVFTDVTDDMTIVKEEIFGPVVVVLFPDSTEEVIERANNSSYGLAAGVWTQNIK
TGHQVANKLKAGTVWINDYNLENAAPFGGYKQSGIGRELGSYALDNYTEVKS VVWVNIK -494

(C-terminal)