Measured metabolite	Corresponding biosynthetic precursor	¹³ CO ₂	Proffered labelled precursor [1 -13 C]Ala	[U- ¹³ C ₃]Ak
		Product fractional ¹³ C enrichment		
F _{Phe(1)} F _{Tyr(1)}	F _{PGA(1)} F _{PGA(1)}	2.5 ± 0.1 3.0 ± 0.3	1.6 ± 0.1 2.2 ± 0.3	1.6 ± 0.1
F _{Val(2-5)} Foleic acid(1-18) F _{Val(1)}	$F_{PGA(2-3)}$ $F_{PGA(2-3)}$ $F_{Pvr(1)}$ (internal CO ₂)*	0.2 ± 0.04 0.1 ± 0.01 2.6 ± 0.1	0.08 ± 0.05 0.1 ± 0.01 8.6 ± 0.1	8.1 ± 0.1

^{13°}C₂ was provided as external labelled substrate or was produced inside the developing embryo by metabolism of [1-13°C₃]Ala or [U-13°C₃]Ala . ¹³C incorporated into different biosynthetic products from 3-PGA (compare with Fig. 1b) is presented. Fractional ¹³C enrichment is denoted as F_{metabolite(carbon abone)}. Values (means ± s.d., n = 4) represent fractional ¹³C enrichment (above natural ¹³C abundance) in amino acids and fatty acids as determined by gas chromatography/mass spectrometry. Pyr, plastidic pyruvate. The biosynthetic precursor/product relations are taken from refs 6 and 9.

*For labelling with [1-13°C]Ala and [U-13°C₃]Ala the label in C1 of Val was assumed to represent the ¹³C enrichment in internal CO₂ (compare with Fig. 1b).